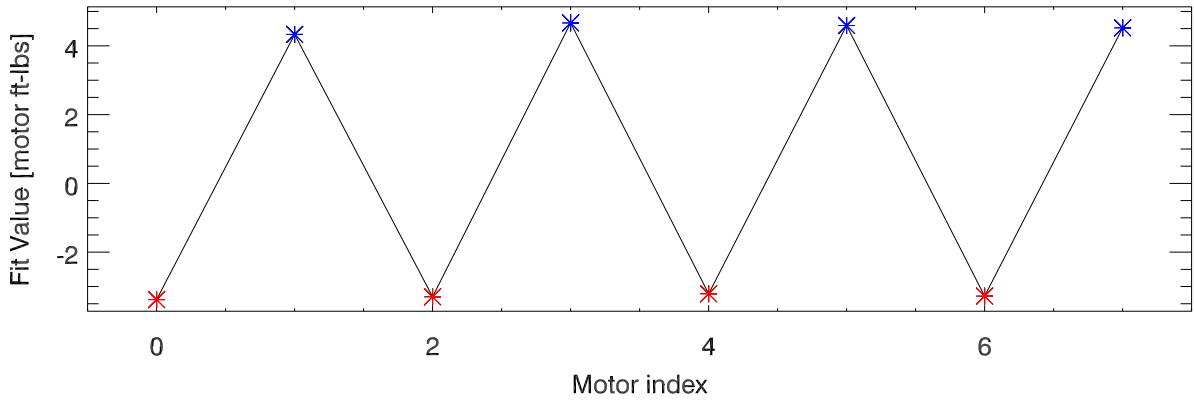
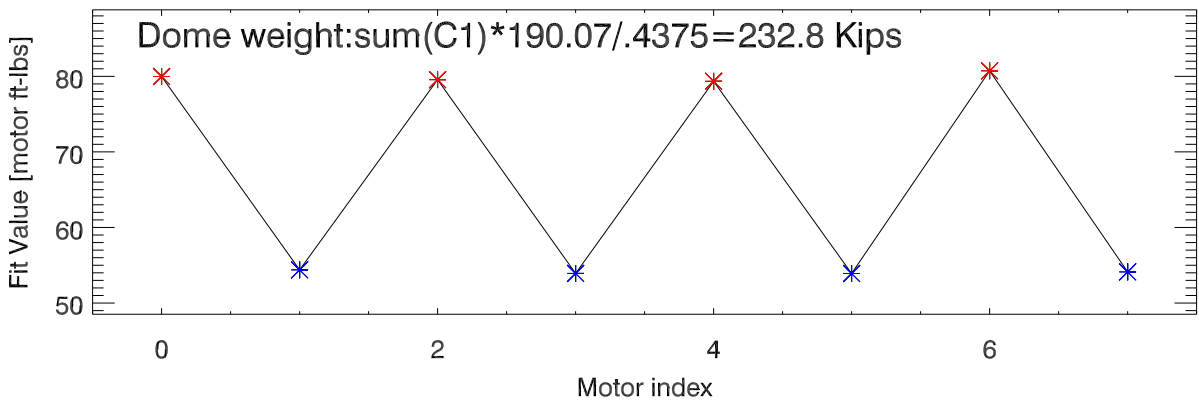


x0:m11  
 x1:m12  
 x2:m21  
 x3:m22  
 x4:m31  
 x5:m32  
 x6:m41  
 x7:m42

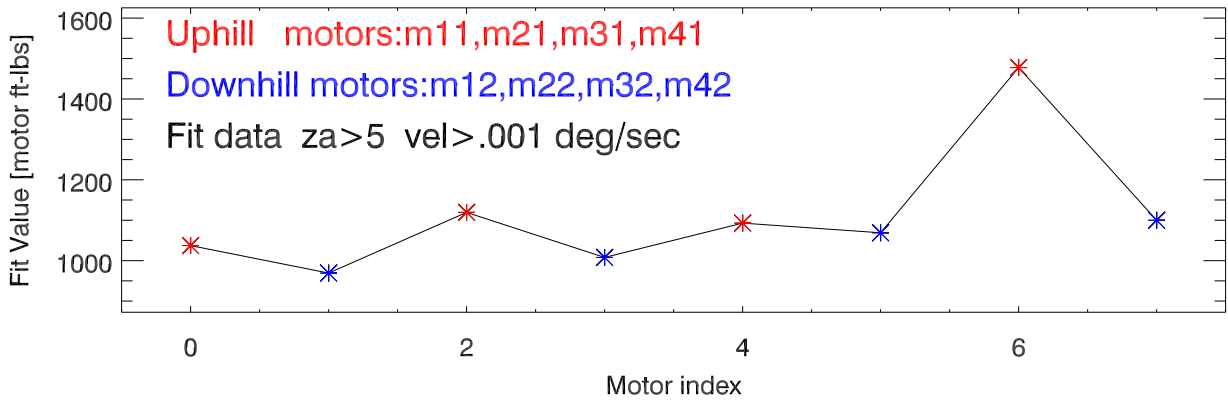
apr13:GrTorques. Fit:C0 + C1\*sinza + C2\*vel \* C3\*accel. (c0:Constant)



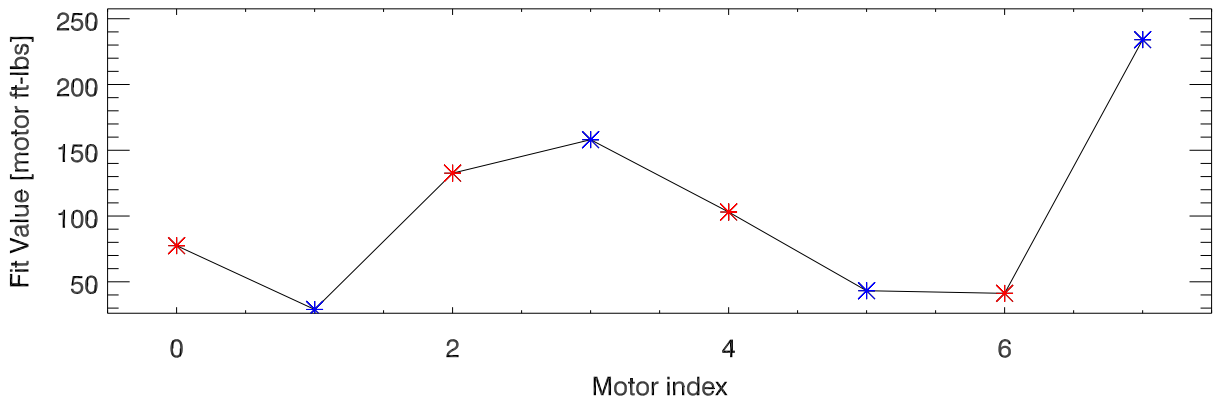
(c1\*sinza:Gravity)

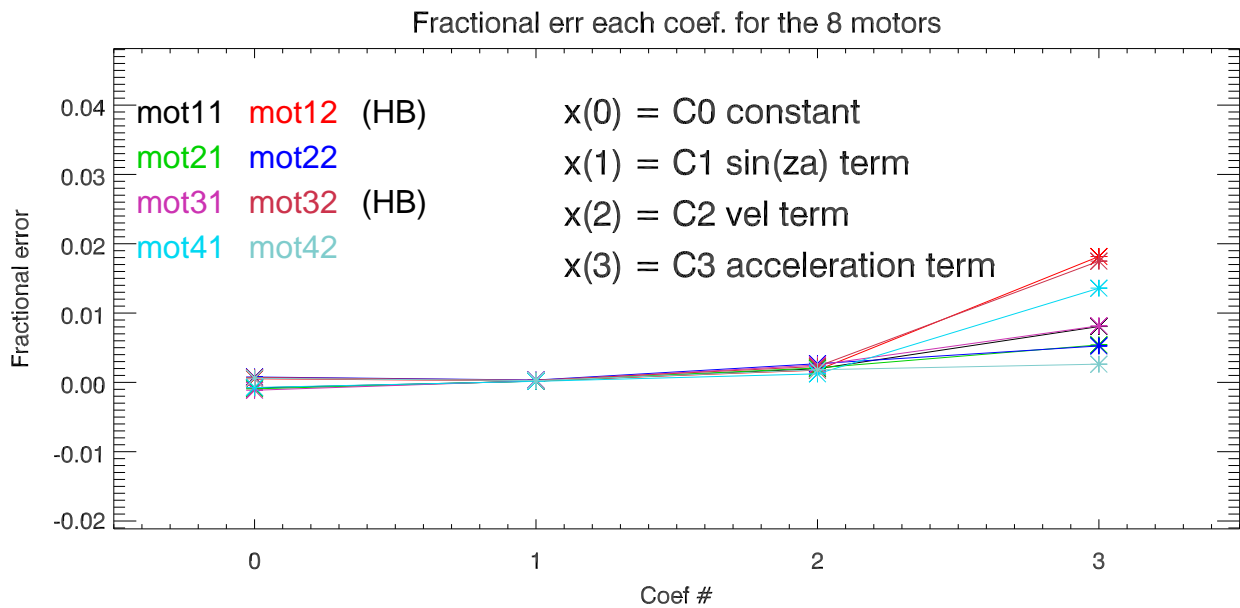
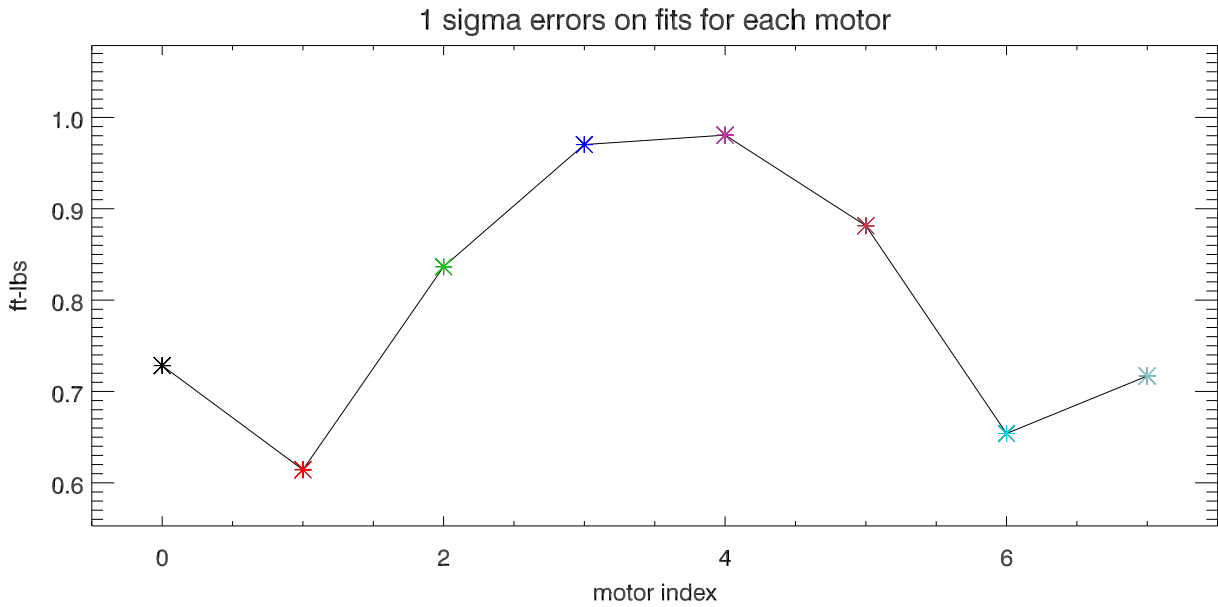


(c2\*vel (deg/sec):Friction)



(c3\*accel(deg/sec ^ 2):Acceleration)





$Fit = C0 + C1 \cdot \sin(za) + C2 \cdot vel(\text{deg/sec}) + C3 \cdot accel(\text{deg/sec}^2)$   
 $MaxVel = (.0147 \text{ deg/sec})$      $maxAccel = (.025 \text{ deg/sec}^2)$

Fit values (ft-lbs) for each motor

motor	C0	C1	C2	C3
m11	-3.38	79.98	1037.37	77.46
m12	4.33	54.39	969.33	28.98
m21	-3.30	79.55	1119.52	132.59
m22	4.67	53.92	1008.03	158.04
m31	-3.21	79.35	1092.90	103.06
m32	4.59	53.91	1069.00	43.19
m41	-3.28	80.72	1477.61	41.22
m42	4.52	54.13	1099.90	234.08